

880GMH/USB3 R2.0

AMD 880G + SB710 Chipsets

ASRock
www.asrock.com



Product Brief <<<

- Phenom II X6 6-Core CPU Ready
- ASRock DuraCap (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Supports ASRock Turbo UCC
- Supports ASRock UCC - Unlock CPU Core
- Integrated AMD Radeon HD 4250 graphics, DX10.1 Class iGPU, Pixel Shader 4.0
- Multi VGA Output options: D-Sub, DVI-D and HDMI
- 1 x USB 3.0 port
- Supports ASRock Instant Boot, Instant Flash, OC Tuner, IES, OC DNA
- Turbo 50 Technology
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Premium Blu-ray audio support
- ErP/EuP Ready
- Free Software : CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Detail Specification <<<

Platform	<ul style="list-style-type: none"> - Micro ATX Form Factor: 9.6-in x 9.0-in, 24.4 cm x 22.9 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors) 		
CPU	<ul style="list-style-type: none"> - Support for Socket AM3 processors: AMD Phenom™ II X6 / X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors - Six-Core CPU Ready - Supports ASRock UCC - Unlock CPU Core - Supports AMD's Cool 'n' Quiet Technology - FSB 2600 MHz (5.2 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport 3.0 (HT 3.0) Technology 		
Chipset	<ul style="list-style-type: none"> - Northbridge: AMD 880G - Southbridge: AMD SB710 		
Memory	<ul style="list-style-type: none"> - Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 1800(OC)/1600(OC)/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB 		
Expansion Slot	<ul style="list-style-type: none"> - 1 x PCI Express 2.0 x16 slots (blue @ x16 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports ATI™ Hybrid CrossFireX™ 		
Graphics	<ul style="list-style-type: none"> - Integrated AMD Radeon HD 4250 graphics - DX10.1 class iGPU, Shader Model 4.1 - Max. shared memory 512MB - Multi VGA Output options: D-Sub, DVI-D and HDMI - Supports HDMI Technology with max. resolution up to 1920x1200 (1080P) - Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 85Hz - Supports HDCP function with DVI and HDMI ports - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports 		
Audio	<ul style="list-style-type: none"> - 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support 		
LAN	<ul style="list-style-type: none"> - PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supports Wake-On-LAN 		
Rear Panel I/O	<table border="1"> <tr> <td>I/O Panel</td> </tr> <tr> <td> <ul style="list-style-type: none"> - 1 x PS2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 5 x eSATAII Connector - 1 x Ready-to-Use USB 2.0 Port - 1 x eSATAII Connector - 1 x Ready-to-Use USB 3.0 Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker / Central / Bass / Line In / Front Speaker / Microphone </td> </tr> </table>	I/O Panel	<ul style="list-style-type: none"> - 1 x PS2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 5 x eSATAII Connector - 1 x Ready-to-Use USB 2.0 Port - 1 x eSATAII Connector - 1 x Ready-to-Use USB 3.0 Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker / Central / Bass / Line In / Front Speaker / Microphone
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USB 3.0	<ul style="list-style-type: none"> - 1 x USB 3.0 port by Fresco FL1000G, supports USB 3.0 up to 5Gb/s 		
Connector	<ul style="list-style-type: none"> - 5 x Serial ATAII 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10 and JBOD), NCQ, AHCI and "Hot Plug" functions - 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x IR header - 1 x COM port header - CPU/Chassis/Power Fan connector - 24 pin ATX power connector - 4 pin 12V power connector - CD In header - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports) 		
BIOS Feature	<ul style="list-style-type: none"> - 8MB AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumpfree - SMBIOS 2.3.1 Support - VCCM, NB, SB Voltage Multi-adjustment 		
Support CD	<ul style="list-style-type: none"> - Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, AMD Live! Explorer, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial) 		
Unique Feature	<ul style="list-style-type: none"> - ASRock OC Tuner - Intelligent Energy Saver - Instant Boot - ASRock Instant Flash - ASRock OC DNA - Hybrid Booster: <ul style="list-style-type: none"> - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Turbo 40 / Turbo 50 Technology 		
Hardware Monitor	<ul style="list-style-type: none"> - CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore 		
OS	<ul style="list-style-type: none"> - Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit compliant 		
Certifications	<ul style="list-style-type: none"> - FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required) 		
Accessories	<ul style="list-style-type: none"> - Quick Installation Guide, Support CD, I/O Shield - ATA 133 Cable - 2 x SATA Data Cables (Optional) 		

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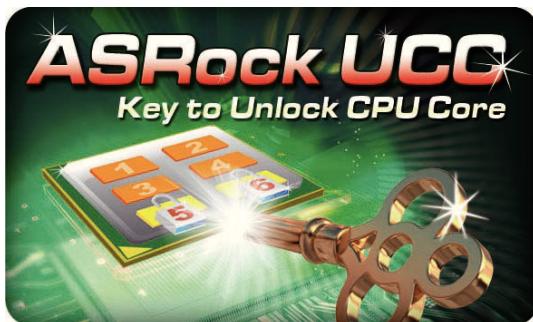
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USB3.0



USB3.0, the world's best-known computer peripheral interface once again receives a major revamp to stay current with today's most demands for connectivity bandwidth. Delivering data transfer rates up to ten times faster than USB 2.0 with the optimized power efficiency, USB 3.0 promises a major leap forward in transfer speeds and capability.



Before -
UCC not enabled, Cores: 4

Name	Value
Code Name	Thuban
Brand ID	9
Processor ID	0000000000000000
Package	Soclet AM3 (938)
Technology	45 nm
Cores	4
Core Voltage	1.325 V
Specifications	AUD Processor X4 SMT Processor
Family	FM
Ext. Model	A
Revision	B
Instructions	MIMD(+), 3DNow(+), SSE 1, 2, 3, 4A, x86-64, AMD-V
Clock Speed	3000.0 MHz
Core Speed	3000.0 MHz
Multiplier	x10.0
Bus Speed	200.4 MHz
HT Link	2004.0 MHz
L1 Data	4 x 64 Kbytes
L1 Icache	4 x 64 Kbytes
L1 Dcache	2 x 128 Kbytes
Level 2	4 x 512 Kbytes
Level 3	6 Mbytes
48-bit Address	48-bit Address
Cache	6 Mbytes
Core State #0	3000.0 MHz
Core State #1	3000.0 MHz
Core State #2	3000.0 MHz
Core State #3	3000.0 MHz
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Core State #371	3000.0 MHz</

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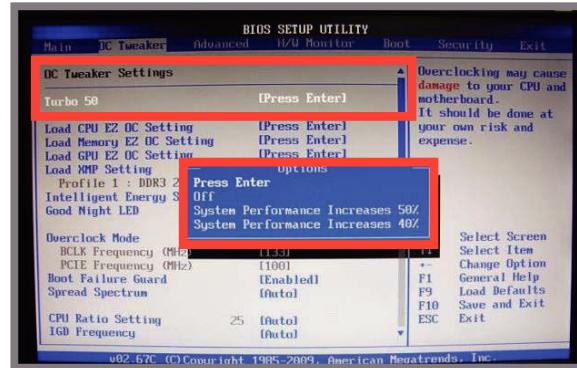
System Performance boosts

up to **50%** increase

Simply click the Turbo 50 button in BIOS, the system performance will **boost up to 50% increase** by automatically overclocking CPU, Memory, GPU frequency and all related voltage settings!

Below table shows that enable Turbo 50 on 880GMH/USB3 R2.0, the performance will boost up to 50% increase!

Model	880GMH/USB3 R2.0
Chipset	AMD 880G
BIOS	L0.04
CPU	Phenom II x2 550
RAM	Kingston DDR3-1600 1G*2
VGA	ATI Radeon HD 4250
HDD	WD WD5000AAKS 500G



Turbo 50 Performance Test Result

Phenom IIx2 550	CPU Frequency	GPU Frequency	3D Mark Vantage (Entry)
Turbo 50 Off	3.1GHz	560 MHz	2620
Turbo 50 On	3.56GHz	980 MHz	3945
Percentage Increase	14.84%	75.00%	50.57%

Note: The overclocking performance depends on the system configuration you adopt. We do not guarantee the overclocking performance.

ATI Radeon® HD4250

DirectX 10.1 Onboard Graphics

Key features of DirectX 10.1 include an updated shader model, improved anti-aliasing support, more flexible data access, and tighter specifications for better application compatibility.

DirectX 10.1 Anti-Aliasing



DirectX 10 –Standard
MSAA:Foliage edges do
not get anti-aliased
–causes shimmering and
crawling when they move

DirectX 10.1 –Alpha Test
MSAA:Foliage edges are
smoothed and anti-aliased
–offers significant image
quality improvement

Features	DirectX® 10	DirectX® 10.1
Shader Model	4	4.1
Separate per-MRT blend modes	No	Yes
Pixel Coverage Masks	No	Yes
Sample Pattern Selection	No	Yes
Cube Map Arrays	No	Yes
Gather4	No	Yes
VS Inputs	16	32
Blending	INT8, FP16/32	INT8/16, FP16/32
Filtering	FP16	FP32

ASRock Turbo UCC
Your All-in-one Solution

Turbo UCC ON

Overclocking
Unlock CPU core
Power Saving

CINEBENCH R10 CPU Benchmark(x CPU)

Turbo UCC	Score	Increase
OFF	5694	96% Increase
ON	11159	

Sandra 09-Multi-Media Int

Turbo UCC	Score	Increase
OFF	62	119% Increase
ON	135.54	

H/W Configuration		880GMH/USB3 R2.0
Chipset	AMD 880G + SB710	
CPU	Phenom II X2 555	
RAM	G.Skill 1333 2Gx2	
VGA	onboard VGA	
HDD	WD 500G	

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What is ErP/EuP?

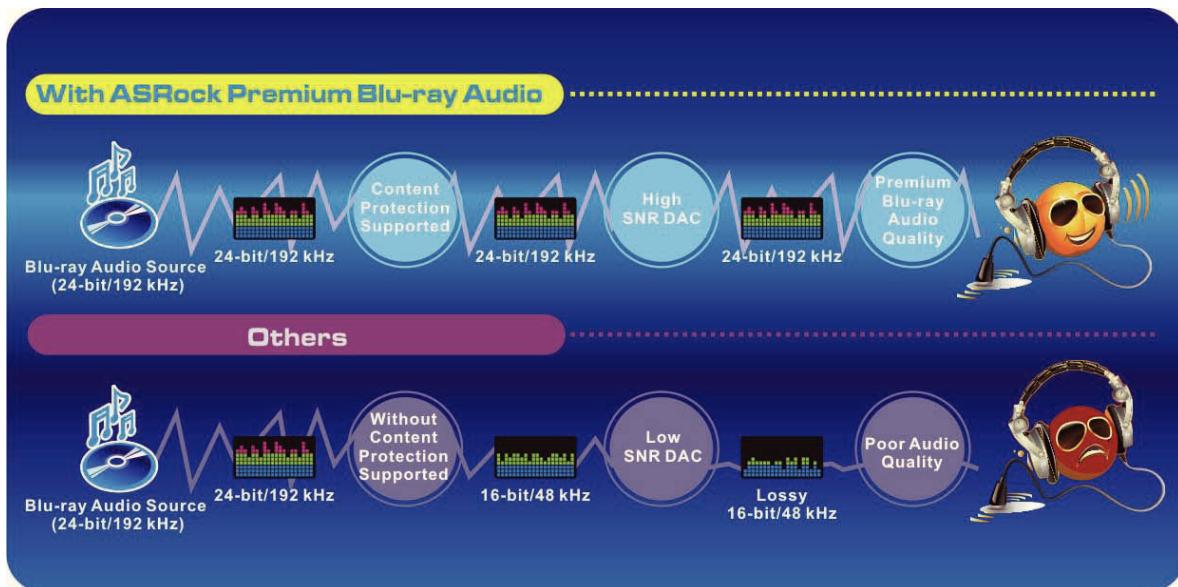
ErP/EuP, stands for Energy Using Product, was a provision regulated by European Union to define the power consumption for the completed system. With the great quantity and the popularly using of the electrical products nowadays and the continuously increasing of the electrical products categories in the following 20 to 30 years, European Union decided to establish an effective strategy to solve the energy consumption problem. That is, according to ErP/EuP, the total AC power of the completed system shall be under 1.00W in off mode condition.

Premium Blu-ray Audio



Premium Blu-ray Audio, an outstanding technology developed on ASRock motherboard, provides the excellent audio output of 24-bit/192 kHz with its respective Blu-ray DRM compatible driver/software. With Content Protection-Support and High SNR DAC, the Blu-ray entertainments can be played in a high quality of 24-bit/192kHz. In other words, if you are using a device without the Blu-ray Audio support, the audio quality will be downgraded to 16-bit/48kHz like a regular CD quality. To deliver the best possible sound solution for today's most demanding users, ASRock Premium Blu-ray Audio motherboard is the best choice for users who are particularly desired to enjoy the pure HD audio. ASRock users are able to take full advantages of our Blu-ray Audio motherboards. Choose ASRock, choose Pure HD audio!

Why ASRock?



True Blu-ray



Blu-ray video + Blu-ray audio

Supporting Blu-ray Full HD 1080p playback and Premium Blu-ray audio with 24-bit / 192KHz sampling rate in 7.1 channel

880GMH/USB3 R2.0

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ASRock
www.asrock.com



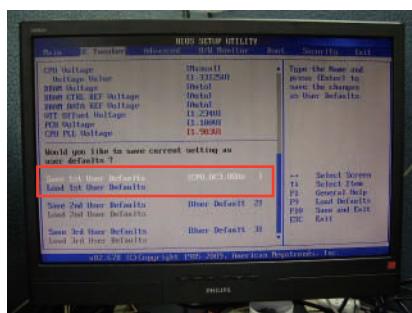
OC DNA

Save your OC settings as a profile and share with friends. Try OC DNA now!

OC DNA Instruction

Step 1

Save your BIOS OC settings as User Default in BIOS OC Tweaker menu. (For example: we name this User Default setting as "CPU_OC3.8GHz")



Step 2

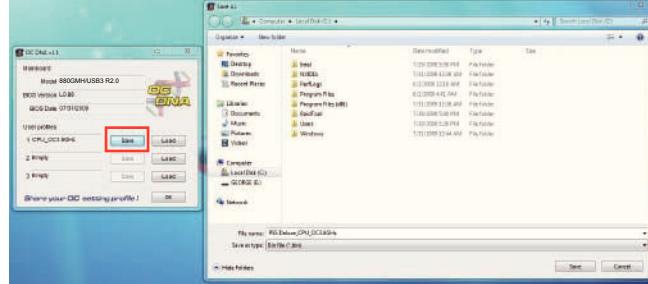
Step 2

Execute ASRock OC DNA under OS, you will find "CPU_OC3.8GHz" as User Profile 1.



Step 3

Press "Save" button to save the "CPU_OC3.8GHz" OC settings as a profile.



Step 4

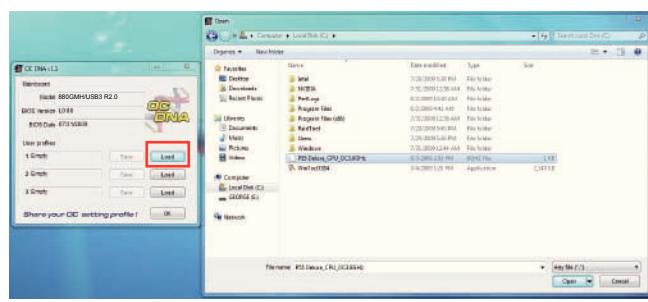
Step 4

Send the "CPU_OC3.8GHz" profile to other friends.



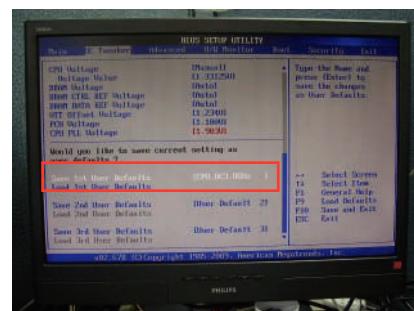
Step 5

When the friend receives your "CPU_OC3.8GHz" profile, he can press "Load" to load the "CPU_OC3.8GHz" profile in OC DNA.



Step 6

After that, the friend can enter into BIOS OC Tweaker menu to load the "CPU_OC3.8GHz" profile as his BIOS OC settings.



Now, you have successfully share your OC setting profile with your friends.

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ASRock Instant Boot

ASRock Instant Boot is a new feature invented exclusively by ASRock. It can boot up system in an amazing speed, which is 10 times faster than traditional boot up. For home users or office PC users, ASRock Instant Boot can also guarantee a clean Windows OS, and consumed less power! For details: <http://www.asrock.com/feature/InstantBoot/index.asp>

* This function is applicable ONLY to single user that does not secure ID and Password to their systems.

* The boot up time depends on the hardware configuration.

10 Times Faster, Only 4 Secs to Boot Up to Windows!

ASRock YouTube

<http://tw.youtube.com/watch?v=BucljXZVxXo>



ASRock Instant Flash

ASRock Instant Flash is an exclusive and the most user-friendly BIOS flash utility developed by ASRock. It is embedded in Flash ROM which is used to update the system BIOS without having to enter operating systems like MS-DOS or Windows.



Features

Once executing ASRock Instant Flash, the utility will automatically detect all devices such as USB, hard disk or even floppy drive to find the exact BIOS for your system. Instead of giving you all BIOS in your devices, the Instant Flash just list BIOS versions that apply to your motherboard model only. For example, if you have many different BIOS of different motherboards saved in your devices, but you just need to flash your P45 motherboard, the Instant Flash will just list the P45 BIOS versions for you. This unique function allows you to easily select the suitable BIOS version instead of browsing through all data.



Instant Flash just list
BIOS versions that
apply to your
motherboard model.

Simple!



Click and start
Flashing!

Quick!

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CyberLink



CyberLink Power2Go 6.1 LE OEM

Power2Go 6 lets you burn and backup videos, photos, music and data onto Blu-ray Discs and DVDs.

CyberLink MediaShow 4.1 SE OEM

Photo and video management software MediaShow edits videos and photos instantly, creates slideshow, and allows publishing directly to YouTube and Flickr.

CyberLink PowerDVD 8.0 DTS Trial

World-renowned PowerDVD 8 DTS delivers outstanding DVD movie playback quality on your PC.

CyberLink PowerDirector 8.0 Trial

PowerDirector - Video Editing software – edits high-definition videos including AVCHD, allows output to PSP iPod and Blu-ray Disc.

CyberLink PowerBackup 2.5 Trial

PowerBackup backups valuable data on your PC.

Creative Sound Blaster X-Fi MB Trial

The Sound Blaster X-Fi MB solution provides premium audio quality, effects and features for PC systems equipped with onboard audio.

For gamers, the EAX® ADVANCED HD 4.0, with its state-of-the-art Multi-Environment rendering and reverb modelling, delivers a much more realistic and immersive 3D gaming experience than your motherboard audio ever will.